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Price Three Cents

COMPETITIONS FOR TECHNIQUE 1920 OPEN IN ALL DEPARTMENTS

Large Number of Candidates Report For Work From
The Two Lower Classes

ART EDITOR TO BE NAMED SOON

TECHNIQUE 1920 is reopening its activity in its old rooms in the second story of the Activities Building at 75 Mass. Ave. These rooms, although entirely inadequate for the present needs of the board, are being cleared away as rapidly as possible until the office can be moved into its new location in Walker Memorial.

Under the guidance of N. Abbott, Editor in Chief, and G. H. Burt, Business Manager, TECHNIQUE 1920 is laying plans for the publication of the book in the spring. The exact date of publication is as yet undecided.

The present Board consists of Norris Abbott, Editor in Chief, George Burt, Business Manager, Malcolm Burroughs, Treasurer, Kenneth Akers, Societies Editor, Kenneth Roman, Statistician, Warren Coffey, Faculty Editor, E. W. Freeman, Photographer, and L. D. Wilson and T. W. Bossert, Associate Business Managers. The positions of Portfolio Editor, Grinds Editor, Athletic Editor and Art Editor will be elected to the Board within a few days. An Art competition will be run to select the two Assistant Art Editors. Those who are interested in any of these positions, are requested to notify the TECHNIQUE office before Monday at 5 P. M.

The competitions have started for the Sophomore Assistant Editors and Business Managers, and for the Freshman Assistant Editors. W. H. Irwin, H. P. J. Wood, C. C. Westland, H. M. Ramsey, H. N. Landis, R. M. Raphael, R. H. Smithwick, W. R. Barker, Winter Dean, and H. F. MacMillan have entered from the Sophomore Class, and E. A. Nussbaum, H. C. Gayley, R. O. Ingalls, T. W. Adler, O. G. Williams, C. W. Manville, S. A. Gayley, W. H. Noyes, E. W. Dittenberg, G. W. Potter, J. W. Strieder, and L. Mandel have entered from the Freshman Class. From these men, ten assistant editors and five business managers will be selected. No



G. H. BURT '20

titions will be started at once and the winners of the Sophomores will be elected as Assistants to the Board and those of the Juniors will be elected to the Board as Assistant Art Editors. The exact details of the competition will be left to the Art Editor to be elected and will be announced later. All men intending to enter the competition should notify the Technique Board at once in order that they may not suffer the disadvantage of entering late.

The exact details of the make up of the edition will not be given out for publication for the present except that every effort is being made to make TECHNIQUE 1920 a book of the Institute and not of the Junior and Senior Classes. The Portfolio of the Class of 1919 will be included but other than

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"CRACKER JACK" BUTTLER WILL COACH WRESTLING TEAM

"Cracker Jack" Buttler, the coach who made the championship Technology wrestling team of 1915 has been secured for this season by Manager "Joe" Dyette and the wrestling prospects of the Institute have taken an appreciable rise. Buttler is planning to be with the squad three or four nights a week and after getting a line on the material, promises to develop a whirlwind team. With these prospects before it, the wrestling team is again calling for candidates and all men, interested in this sport, who weigh between 190 and 220 pounds are urged to come out.

The chances for new men on the wrestling team are some what greater than on many other activities since it must be made up principally of inexperienced candidates who will get their training here. Besides Coach Buttler, Mr. Gracey, an experienced wrestler, will be on hand to instruct the men and will meet candidates in the team's headquarters, Room 1-175 every night from 5 to 6, except Saturdays. On Thursdays, they will be at the rooms from 4 to 6. All candidates for the team will be excused from calisthenics.

All candidates, including new men, will report on Monday, January 13, between 4 and 5 30 o'clock in the South room in the track house.

RIFLE CLUB EXPECTED TO BEGIN ACTIVITIES SHORTLY

Absence of Old Members Leaves Positions on Team Open to New Men.

The Rifle Club has been delayed in getting under way as a result of the lack of old men who had the business affairs of the club at their finger tips. Much of the equipment has been misplaced during the rush that accompanied the organization of the S. A. T. C. At the next meeting of the Institute Committee this matter will be looked into and the financial basis of the club determined, although it is known that it is well off in this respect. President A. C. Atwater expects that the affairs of the club will be in full sway before the end of next week and hopes for the hearty support of the college at large in bringing it back to its old standing. As the war is over the government will again in all probability turn its eyes to the clubs to which it lent assistance in past years and provide facilities which ought to boom the Rifle Club considerably.

T. K. Nolan who was the former president of the club is at present in the government employ under Colonel Lewis of the Institute who has made such a famous showing in the Chemical Warfare service, and it is not known whether he will return. Many other old members of the Rifle Club are also absent and the management wants every man who thinks himself at all able to shoot to turn out for the first practice which will be announced soon. As the club receives assistance from the government in the form of supplies such as ammunition and guns the dues are extremely low and should not exceed one dollar for the rest of this year although the actual expenses of the club

(Continued on page 3)

ELECTRICALS ELECT OFFICERS

A short meeting of the Electrical Engineering Society was held Wednesday to elect officers for the coming term. All ballots must be handed in before noon today. Two men were elected to the nominating committee during the meeting. A large number of men were present at this time and the officers expect a good membership this year. Plans for the season's activities will be made soon after the results of the elections are announced.

WHO'LL PLAY RUNKLE?

House Challenges All Comers
In Inter-Dormitory Hockey

Runkle, the first house of the Institute dormitories to revive inter-dormitory contests, has issued a challenge to all other houses to play hockey. They bar no one and merely stipulate that all their opposing contestants shall come from a single house. In fact, their spirit of confidence has gone so far that Joseph Christoph, Runkle 301, who has taken the matter in hand, states that provided the other houses are unable to produce a team separately the Runkle hockey enthusiasts will consider playing the allied dormitories. Since the inauguration of the idea for a hockey team, the enthusiasm has spread rapidly through Runkle and there are men who are already contemplating the possibilities of a basketball and other athletic teams.

The preliminary survey of the material in Runkle disclosed the fact that "Dan" McNeil, who played center on last year's Boston arena hockey team was a resident as well as H. Maxim who formerly played with Hartford high school. Joseph Christoph was connected with the Suffolk school team at Suffolk, Ct. Rumor also has it that another Runklite, who is now ill in the hospital is also a crack player. Besides these men, there are about 15 who have played the game at various schools and although they were never officially connected with any team have agreed to help make Runkle the dormitory champion. The other houses also have considerable available material but little organizations has as yet been attempted. In the meanwhile, Runkle awaits an answer.

KOMMERS SMOKER FEATURING FORMER STARS SCORES HIT

Parsons '19 and Britton '20 Amuse Big Audience
With Clever Acts and Songs—Large Quantities
of Smokes and Cider Consumed

OVER 450 STUDENTS ATTEND

Nearly 500 students, the largest number which has attended a Kommers smoker in several years, laughed, shouted and applauded in Walker Memorial last night, when old time Technology stars were featured at the first of the annual events which are given to arouse enthusiasm for the Tech show. Members of the management spoke to the men present explaining the various functions of the show as well as the duties of the positions on its staff, many of which are still open. At intervals throughout the evening, the Memorial resounded with Technology cheers and songs under the direction of former cheer leaders and at the close of the entertainment, cider and doughnuts were furnished as refreshments. After the second smoker, which will be given in a short time, the author of this year's show will be announced and the successful poster designer will be picked.

Last night's smoker opened with an introductory speech by John A. Philbrick '20, who explained the duties of the stage department saying that three or four more freshmen are needed for this branch. Their work consists of last year's show and "Oh! Boy." Parsons then came out alone and sang "Life is Full of Ups and Downs" another show hit; "I'll Say She Does." "Why They Take the Night Boat to Albany" and "Women Haven't any Mercy on a Man,"



"CHARLIE" AND "FREDDIE" IN "LET 'ER GO"

assisting in handling rehearsals both at the Institute and at the Opera House, in preparing a book for the members of the cast, preparing the lyrics and in general taking care of staging the show. From the freshmen assistants this year the sophomore assistant will be chosen for next year and the man on becoming a Junior will be made stage manager. The feature of the evening was the songs by the Institute recognized favorites "Freddie" Britton and "Charlie" Parsons who played the parts of Artie Choke and Pussy Willow in "Let 'Er Go." They introduced themselves by singing together "Quaker Miss" from with his usual ability.

"Ed" Booth '21, who was Percy Pierce in last year's show sang "I'm Awfully Fond of Myself" from "Let 'Er Go." He

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CALENDAR.

Saturday, Jan. 11, 1919
Tech Show Competition for Sophomore Assistant Business Managers at 1 p. m.
Monday, Jan. 13, 1919.
Crew candidates report at the south end of track house at 5 p. m.
Banjo club rehearsal at 5 p. m.
Room 10-275
Glee Club rehearsal at 5 p. m.
Room 10-250
Tech Show Competition for Freshman Assistant Business Managers at 5 p. m.
Tuesday, Jan. 14, 1919.
Mandolin Club rehearsal at 5 p. m.
Room 10-250.
Tech Show Competition for Freshman Publicity Managers at 1 p. m.
Wednesday, Jan. 15, 1919.
Banjo Club rehearsal at 5 p. m.
Room 10-275.

MILITARY SCIENCE BULLETIN

Students are reminded that all male students of the first and the second year classes are required to take the course in Military Science. For information concerning exercises they are referred to the program of exercises, the Tabular View, to notices posted upon the Military Bulletin Board opposite Room 10-100.

WALTER HUMPHREYS,
Registrar.

FACULTY NOTES

Elementary Spanish will be offered in two sections.
I. Mon., Tues., Thur., Fri., at 5.00, in room 2-143.

II. Tues., Thur., Fri., Sat. at 8.00, in room 2-139.

Students may choose the section desired; those taking I. will report for the first recitation Friday, Jan. 10 at the time and place given above; those taking section II. will report on Saturday, Jan. 11.

Bring to class Hills and Ford, First Spanish Course.

N.B. Spanish is not open to those who have already met the Institute modern language requirements for a degree.
E. F. Langley.

The Tech

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name of the writer must in every case be submitted to the editor. THE TECH
assumes no responsibility, however, for the facts as stated nor for the opinions
expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the
editorial columns, and the Managing Editor for the matter which appears in the
news columns.

IN CHARGE OF THIS ISSUE

R. H. Smithwick '21 Night Editor

SATURDAY, JANUARY 11, 1919

TAKE YOUR PART IN THE ACTIVITIES

THE biggest problem before the Institute Committee, and those interested in student life at the Institute is to get the men at Technology to realize the value of the activities and go out for them. This matter has always been a sore point at the Institute because of the large number of men who have the idea that the only path to their success lies through giving undivided attention to their Math. and Chem. and Applied, etc., and leaving all outside interests well alone. Hence rises the proverbial expression, "narrow minded Tech men." The fact is, however, that these men who are striving to get all that Technology can give them are defeating their own purpose. It stands to reason that the man who is successful in his academic work and at the same time is able to take some part in the student life must show more ability and keep wider awake than the man who is doing only academic work. Then again, the value of the association with other students and acquaintances made should not be underestimated. Every engineer who is successful enough to rise to an executive position will find that part of his work is not simply technical in nature but handling and dealing with other people. It is in this part of his work that he will find the value of rubbing shoulders with his classmates while in college. Aside from the personal gain there is the question of keeping up the good reputation of the Institute, which should be a matter of pride with every one of us.

HAVE YOU TRIED THE WALKER MEMORIAL DINING SERVICE?

WHEN the Walker Memorial is finally running smoothly, the dining service is certain to be popular, but just at present it is not being well patronized. Many students do not know that the dining hall is open. To these we say, "It is." Moreover, there is a good variety of light and substantial food at prices which will compete with any of the lunch counters near the Institute. When the activities are duly installed at the Memorial, they will naturally increase the patronage, but while the students are waiting for the opening of the lounging rooms, etc., they should not forget that the dining hall will be open continuously now. It may be a little out of the way, but it pays to walk!

WHERE ARE THE "TECH." BUTTONS?

WHERE are the Tech. buttons this year? Every one who has not one on should go to the Bursar's office and get one without delay. This is a tradition that every Institute man should help to perpetuate.

CAN WE ESTABLISH TRADITIONS?

The Institute dormitories, which are fast being organized as units of competition, may yet serve as the nucleus for the formation of the much talked of Technology spirit by establishing those traditions in which other colleges, notably Yale and Princeton, are so rich. Already some rivalry has been started by an announcement from the men living in Runkle that they will meet any hockey team composed of men from any other

single house in the dormitories. Within a short time, other dormitories are to be built and this chance for competition will spread. Tales of victories and inter-house battles will go on record and the men who in later years, live in these houses, will feel it incumbent upon them to maintain the record of their home. College spirit must be built on a stabler foundation than cheers at a football game or songs at a smoker and every effort of men to establish Technology traditions which will live in coming generations, is a step in the right direction.

PERSONALS

Word has been received by Mr. and Mrs. Edward F. Payne of Belmont, Mass., that their son, Lieut. Karl C. Payne, who was officially reported missing December 11, is alive and well, a prisoner at Karlsruhe. The American Red Cross cabled that his early release was expected. Lieut. Payne is the possessor of a Distinguished Service Cross, given him for exceptional daring and bravery in action September 16. According to report he and Capt. Cecil G. Sellers, pilot, continued to the enemy lines despite the fact that they had accomplished their objective and the other



LT. K. C. PAYNE

six planes of their squadron had turned back when attacked by a superior number of enemy planes. Lieut. Payne and the pilot were forced to fight off seven German planes through a run of several miles while they gained their objectives, dropped their bombs and then returned to their own lines. He was less than 22 years old when cited. Lieut. Payne is a graduate of the U. S. Army School of Aeronautics at Technology in Squadron 14, in 1917, and was commissioned after a flying course at Mineola.

Miss Celeste Johnson Brennan VII, '18 has resigned from the Du Pont Company and is now chemist in the Ord-



MISS C. J. BRENNAN '18

nance Dept., U. S. A., and is stationed at the government laboratory, Du Pont Engineering Co., Penniman, Va.

2nd Lieut. Eloner H. Heath, Jr., VII, '17 San. Corps, U. S. A., is at the Base Hospital, Camp Devens, Mass.

Captain William F. Wills, VII, '10 is in the sanitary corps, U. S. A., and is engaged in general water supply work in central France with headquarters at Tours. His address is Water Supply Laboratory, D. C. and F. A. P. O. 717, A. E. F., France.

Private Marshall C. Balfour, San. Corps, U. S. A. VII, '18 is with the 302d Water Tank Train, A. E. F., at Com-merey, France.

Lieut. Charles E. Fox, San. Corps, U. S. A., XI, '14 has been assigned as interpreter of the Serbian language to the Peace Conference in Paris.

Albert W. Buck, VII, '13 has left Serbia and is now attached to the American Embassy in Paris.

First Lieutenant George C. Kenney '11, Air Service Pilot, 91st Aero Squadron,

was cited for extraordinary heroism in action near Jametz, France, October 9, 1918. This officer gave proof of his bravery and devotion to duty when he was attacked by a superior number of aircraft. He accepted combat, destroyed one plane and drove the others off. Notwithstanding that, the enemy returned and attacked again in strong numbers. Lieut. Kenney continued his mission and enabled his observer to secure information of great military value.

William Chapman Foster '18, captain of the 1915 and 1916 swimming teams, has returned to Technology to resume his studies. He left the Institute in the spring of 1917 to enter the aviation service, in which he was commissioned a second lieutenant. During the last five months he has been instructor at Selfridge Field, Mt. Clemens, Michigan. Previous to that he was at various aviation fields in Texas and elsewhere in the South. While at Technology, he was a member of the swimming team of 1915, 1916, and 1917, of which he was the captain during the first two years. He was also a member of the swimming relay team those three years. He is taking Course VI and is a member of the Lambda Phi fraternity. His return to Technology will be a splendid addition to the swimming team, which has already such expert swimmers as Untersee and Biddell. With him, the team ought to be able to keep up its reputation of being undefeated for three years.

COMMUNICATION

Out of fairness to ourselves and our fraternity, we wish to state that we are not members of the Phi Sigma Kappa fraternity as was recently stated in the TECH. We regret very much that this mistake was made.

(Signed) R. H. Smithwick,
Paul N. Anderson.

DORMITORY ELECTIONS

On Wednesday evening, January 9th, elections were held in the various sections of the Tech dormitories. At 7:30 o'clock, Dean Burton and Mr. H. S. Ford of the Institute Dormitory Committee arrived to take charge. The Dean presided in each case when the men had assembled, but turned the meeting over to the new chairman as soon as he was elected. A large majority turned out, and results were quite satisfactory.

For Atkinson
Chairman—Michaels '20.
Members—Caster '20, Swift '21, Hammond '22.

For Runkle
Chairman—C. H. Reed '20.
Members—S. T. Hill '21, Christoph '22,
For Holman
Chairman—Haeblor '20.

Members—Kirkpatrick '21, Munsing '22.
For Nichols
Chairman—McKenney '20.

Members—Clements '21, F. P. Knight '22.
The dormitory executive committee consisting of the four section chairmen will hold a meeting in the near future to elect a fifth member for an unequal number of members.

The various committees linked together by this committee of five will soon be working to get the fellows in the "dorms" well acquainted with each other. Many meetings and socials are being planned and notices of these will appear from time to time in this paper.

INSTITUTE COMMITTEE MEETING

The following is the report of the first meeting of the Institute Committee to be held this term.

"A regular meeting of the Institute Committee was held Thursday, January 9, in Room 10-275. The meeting was called to order at 5:20 o'clock by George W. Burt, chairman of the Activities Committee, in the absence of any regular Institute Committee officers.

Present: Nash, Akers, Bradley, Bawden, Spitz, Untersee, Bugbee, Abbott, Howes.

The Committee then proceeded to elect officers for the present term; the result being as follows:

President, John C. Nash; Vice-President, William H. Young; Secretary, Homer V. Howes.

Nominations were opened for treasurer, but no ballot was cast, and the election was left until next meeting.

Suggestions were then made for chairman of the Finance Committee. Voted to adjourn.

Adjourned at 6:15.
E. V. Howes, Sec."

The main business carried out at the meeting besides the election of officers was a discussion of some points which arose concerning the election of men not on the committee as officers. There was also a discussion on the duties which should fall to the lot of the Treasurer the chairman of the Finance Committee and the chairman of the Budget Committee, to perform.

At the meeting there were no freshmen present. This was due to the fact that since there was no secretary no notices were sent out and the only intimation of the affair was a notice in THE TECH. However, attention is called

to the fact that a special meeting is called for Tuesday, January 14 at 5 o'clock in room 10-275.

C. E. SOCIETY TO REORGANIZE

After having remained dormant during the entire first period of the year, the Civil Engineering Society is coming to itself again and promises to resume its interesting meetings in the near future.

During its summer meetings the society heard two excellent illustrated lectures on the subject of bridges by Professor James M. Barker, and another by Randall D. Gardner, who has charge of all the Boston drawbridges. Refreshments were served. During the middle of August the society also unfurled a service flag, containing 154 blue stars and one gold star, for its members in service.

By the opening of the first period of this year every officer of the society except the secretary, Homer V. Howes, and treasurer M. P. Smith had left the Institute, and these men are now anxious to see the society resume its activities. Secretary Howes will soon call a meeting of all interested parties, at which plans for the current year will be outlined. Howes has received a letter from Myles Connors, '19 of Washington, D. C., in which Connors, who is the last president of the society, expresses his great interest in it, and freely offers his services, promising to get some interesting motion pictures for the society.

Anyone interested in the Civil Engineering Society, and wishing to see it resume its interesting and instructive meetings is requested to hand in any suggestions to Howes in the TECH office.

"THE LAST ORDER ISSUED ON THE WESTERN FRONT"

The following communication has been received from Neal E. Tourtellotte, '17, Captain C. A. C., who states that it is "the last order issued on the front."

General Depressions of the Day
The enemy reacted violently all over the sector. Strong attacks west of the Meuse were thrown back easily by us. Small local attacks by our troops succeeded in driving the enemy from his positions. During the afternoon, violent counter attacks appear to have caused us to readjust our lines slightly to a depth of ten kilometers.

The day was quiet. Otherwise there was nothing to report.

The enemy appears to place his main reliance on machine guns, infantry, artillery and aeroplanes to resist our attacks. This is taken as an indication of something very significant, namely, the tremendous shortage among the enemy of all other branches. Otherwise there is nothing to report.

Two men were seen entering a ravine near (CHIRILELY?). This confirms prisoners statements of a general withdrawal to the Fridge-Stellung.

On the right, the enemy are extremely nervous. They showed their nervousness by raiding our trenches and throwing hand grenades at us.

Enemy Front Line
The enemy line follows ours in a general way, except in one or two places where it runs south of it. East of the MEUSE, it runs in an easterly direction to the left (inclusive). W. of the MEUSE, it runs in the opposite direction (exclusive). Thence it runs in a N.E. direction (inclusive) turning due N. for 200 M. Thence due S. for 200 M. From here on there is no change. This has not been confirmed.

Enemy Disorder of Battle

(a) Identifications.
12th Meulskimmers—A prisoner of the 12th Meulskimmers recently captured confirms the belief that this is not the 2th Meulskimmers at all but the 15th Schutzenfests. Order of battle confirmed.

11th Jaeger Wullens—A prisoner from this division captured between 3 hrs. last Wednesday, states that this regiment was recently disbanded and transformed into the 10th Flanelraper Battalion. Order of battle confirmed.

333 KUKs—The 333 KUKs have been replaced by the 17th KAKs. Order of battle confirmed.

449th Gesundheits—The 944th Butterbrots have been identified as the 449th Gesundheits. They recently came from the Uskub front. Order of battle confirmed.

(b) Presumed Enemy Order of Battle.
The efforts of the enemy to fill the gaps in his line appear to have resulted in a confused order of battle. There are divisions on the right and left. Apparently some are in the rear. Others are on the roads between these points. Several prisoners recently captured state that they have no idea what the enemy order of battle is. This shows the extreme confusion in the enemy ranks.

(c) Comment on Enemy Units.
42nd Landwhere Balloon Kumpanie—A prisoner from the Kumpanie states that when our attack started they were 40 kilometers to the North. When the news of the attack reached them, however, they came down immediately. Prisoners report that the 402nd Land-

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THE LAST ORDER ISSUED
ON THE WESTERN FRONT

(Continued from page 3)

Division now opposite our front composed entirely of one-legged men pressed into the service from the West Sauer Kraut Factories at ESSEN. This and other documentary evidence indicates the terrible internal disorders in Germany.

Enemy Intentions.
That there is great indecision on the part of the German General Staff as to the point to which the line will be withdrawn is indicated by the statement of a prisoner of the 77th Krapshooter Battalion. When questioned on this point he replied significantly "I don't know."

It is generally supposed that the enemy will fall back first into the Metzundjammer Stellung (From a captured map dated April 1913). From there he may fall back into the Meuse. There is every indication that a stand will be taken at La TRINE.

Enemy Infantry Activity
The enemy infantry were extremely active during the day, jumping up and down and climbing trees. A number of tests have been observed in the BOIS DE SANDYLEGS. Perhaps it is safe to venture the assumption that these were made by machine guns. A counter attack during the morning succeeded in establishing a deep pocket in our lines in the region of the HULLABELLOO BOIS Woods. Later in the day our troops turned this pocket inside out.

Enemy Artillery Activity
The artillery now opposite our front readily lends itself into two main groupings: (1) The East Meuse Grouping; (2) The West Meuse Grouping. It is very significant that since the beginning of the attack all batteries reported in action have been in one of these two groupings.

A careful study of the terrain shows the River MEUSE separating the country on the right of it from the country on the left of it. The country varies from hilly to flat with woods and open spaces. Roads run between the towns. All conditions make the country ideal for the artillery which we are safe in assuming to assume is there.

During the day (and night) the firing all appeared to come from a northerly direction. The preponderance of the fire was from 77's, 103's and 150's. Gas, E. E. and shrapnel were chiefly used. A battery at J was reported by a prisoner. This was confirmed by photographs which show nothing at this point.

MANGY-ANNE was shelled with gas during the afternoon. Battery 7.11 was immediately counter-battled. This was apparently effective for toward morning the shelling stopped. Our artillery successfully counter-battled 17 batteries (enemy) during the day (and night).

Two batteries were reported in action: J 0.789 and J 98.7. Upon reference to the Plain Directeur one of these appears to be in the middle of the MEUSE River. Our only explanation of this is that the enemy must be using torpedo boats.

Enemy Movements
Visibility: Poor and intermittent during the night.

Railways: No unusual activity observed. Most of the railroads seemed to remain in the same place during the day.

Roads: An old man in a wheel chair going from BAR-devant-MEUSE to BAR-diere-MEUSE tends to confirm the belief that the enemy is retreating.

At 12.64, 600 men were seen going from VANDYANNE to ANDYVANNE. At 12.74, 600 men were seen going from ANDYVANNE to VANDYANNE. It is thought that this move was made by the enemy with a view to increasing the circulation of his troops.

During the day an old man was seen sitting outside a house in VINGT-ET-UN. No other unusual activity was observed around the town.

At 15.32, 12 wagons, believed to be a battery, were seen on the ANCY-BUZ-ANCY road going in both directions. Two men were seen to come down the HARRICOURT-BARRICOURT road and enter a small wooden hut at 322 x 114.5. This is thought to indicate a relief.

Enemy Works
Fox holes and occasional rat holes have been observed in front of the BOIS DE BOIS Woods.

A captured German map has been found showing a new Stellung. This Stellung is indicated by a line scratched across it in pencil. This is undoubtedly the point on which the enemy will fall back Thursday. The map fails to show the Stellung east of the river. We have drawn in the missing portion on the attached map.

A study of recent photographs confirms the presence of the Meuse river as shown on the Plain Directeurs.

A Study of the Meuse
Photographs show that the Meuse river runs in a northerly direction to STENAY. From here it turns in a westerly direction. This tends to confirm the Plain Director. There are no unusual bridges between the towns and these have been destroyed. No photographs north of this point are available, but there is every reason to suppose that the river does not end here.

Enemy Aerial Activity.
The enemy was very active during the period, particularly on the right and left and in the center. Most of the enemy planes crashed. Otherwise there was nothing to report.

Enemy balloons were observed North of VERDUN, West of SOUILLY, and East of BAR-LE-DUC.

Miscellaneous
Extract from a captured German Document:
"I received your letter and was glad to hear that you were sending down an extra pair of knitted socks. Since I put on the last pair, you sent me, six months ago, I have never been without them."
(Signed) Wilhelm.

This is undoubtedly a message in code from the Kaiser and is thought to contain the order to fall back on the KURZUNDLANG-STELLUNG, thus confirming our previous assumption. Order of battle confirmed.

Activity of Our Own Troops
Our troops spent the day tightening their lines and improving their positions which were very awkward.

Our Aerial Activity
The dampness made the day impossible for flying. In spite of this, our planes were up in great numbers destroying numerous enemy planes and taking dozens of photographs in spite of the dense fog which rendered visibility impossible.

Our scout patrol of three planes met 20 Fokkers. The Fokkers immediately burst into flame and crashed.

The ceiling was so low that at times our planes were forced to run along the ground. In spite of this, we penetrated deeply into the enemy's territory bringing back invaluable information as to the location of towns, rivers and roads behind his lines.

Lt. Cholmondelay Brown destroyed three enemy balloons in their beds by descending upon them so suddenly that they became tangled in the bed clothes and were unable to escape.

Lt. Dunwiddy brought down a balloon at dawn. Owing to the darkness, Lt. Dunwiddy brought down one of our own balloons. Luckily it was an old one. He observer jumped but was not seen to land. Confirmation is requested.

Order of Battle confirmed.

**RECORD-BREAKING OUTPUT
OF PETROLEUM IN 1918.**

The quantity of crude petroleum marketed from oil wells and field storage tanks in the United States in 1918 reached the record-breaking total of 345,500,000 barrels, as shown by preliminary estimates made by John D. Northrop, of the United States Geological Survey, Department of the Interior. This output is an apparent gain of 3 per cent over the former high record, 335,315,601 barrels, established in 1917.

The output in 1918 includes no less than 6,500,000 barrels of crude oil removed from field storage but excludes drafts aggregating 20,500,000 additional barrels from stocks of pipe-line companies. The surface reserve of crude oil held by oil producers and pipe-line companies in the United States at the end of 1918 is estimated at 123,000,000 barrels, compared with 150,000,000 barrels at the end of 1917. These figures show that the demand for domestic petroleum in 1918 amounted to about 366,000,000 barrels. The exports of crude oil, most of it to Canada and to northwestern Mexico, aggregated about 5,500,000 barrels, leaving a total of 360,500,000 barrels available to supply domestic needs. This quantity was insufficient, however, and about 36,500,000 barrels was imported, nearly all of it from Mexico, to meet the domestic requirements, which amounted in all to about 397,000,000 barrels.

The increase in output was made in response to a steadily growing demand for petroleum, expressed in advancing prices for crude oil, which were stabilized, with Governmental approval, at record levels during the closing months of the year. The most pronounced response to the stimulus of the war-time demand for petroleum was in the Central and North Texas, North Louisiana, Rocky Mountain and California fields, but the gain credited to the old Appalachian field, though moderate, is significant. The increase in the output of this field was due in large measure to successful drilling in Kentucky, particularly in Estill, Lee, Lincoln, Breathitt, and Allen counties.

In California the principal source of new production was the Montebello field, discovered in 1917. In Los Angeles County, which, with the Casmalia district, in Santa Barbara County, and with the older district in both the San Joaquin Valley and the Coastal-Southern divisions apparently succeeded in establishing a new record for oil production in California, exceeding 100,000,000 barrels.

The gain in the Rocky Mountain field is credited to Wyoming and is ascribed in part to the Big Muddy field, in the western part of Converse County, in part to the drilling of a few new wells of large capacity in the heart of the Salt Creek field, Natrona County, and in part to the results of providing marketing facilities for the Warm Springs field, Hot Springs County, and for the

Pilot Butte-Maverick Springs district, in Fremont County. New and potentially productive sources of oil were proved in Wyoming in 1918, on Buck Creek in Niobrara County and on Rock River in the eastern part of Carbon County.

Credit for the gain in the North Louisiana field belongs almost wholly to the Pine Island district, in Caddo Parish, opened near the end of 1917, and extensively and successfully developed during 1918. Near the end of 1918 a new oil pool of apparent great promise, termed the Bull Bayou district, was opened in the southeastern part of De Soto Parish, about 3 miles south of the Crichton field.

Momentous developments that affected the future supply of high-grade petroleum in the United States took place in 1918 in the Central and North Texas field, after petroleum had been discovered in considerable quantities near Ranger, Eastland County; near Caddo, in Stettphens County, near Brownwood, in Brown County; and near Burkett, in Coleman County, in 1917. About 60 oil wells were completed during 1918, and at the end of that year the new field was credited with a potential capacity of 50,000 barrels of oil a day, though its actual capacity, limited by pipe-line facilities, was only about 18,000 barrels a day. The campaign of wildcat drilling radiating from the centers named extended over more than 40 counties in northern Texas before the end of 1918 and will doubtless result in the opening of other pools of high-grade oil in 1919.

The decrease charged to the Oklahoma-Kansas eld is accounted for by the failure of wildcat drilling to discover new fields comparable with the declining ushing, Healdton, Eldorado, and Augusta fields. In Kansas new territory was opened in Butler County, north of the Eldorado field, and in Greenwood County, east of that field. In Oklahoma a productive pool known as the Youngs-own pool was developed in Okmulgee County, and strictly new oil territory was opened in Stephens County, several miles west of the Healdton district.

The diminution in the output of the Gulf field is due to the decline in the output of the Goose Creek pool, Harris County, Texas, and to the normal decline in that of the other dominant pools in that eld. New pools of promise were discovered in the Gulf field in 1918 at West Columbia, Brazoria County, Texas, and at Big Hill, Mtgarda County, Texas, though neither added materially to production in that year.

RIFLE CLUB
(Continued from page 1)

will be much more than this amount warrants.

The location of the future rifle range is not yet determined and although space has been provided in Walker Memorial for this purpose, Burser Horace S. Ford will not put this range into commission until other parts of the building have been made ready for use. The old S. A. T. C. rifle range is considered unsafe by the burser, and although the club thinks this the ideal place it is not believed that it will be used for target practice. However, the Cambridge State armory is at the disposal of the club every afternoon and it is thought that this will be the place used. The only objection to the armory range is the fact that it is a 75-foot one while the club uses a 50-foot distance.

The guns that were used last year and ammunition for the same has disappeared this year, and this is accounted for by the fact that the cases containing them have been moved from building to building and locker room to locker room as the space needed for military purposes increased. It is believed that at present this equipment is in use by the provost guard stationed here and as Colonel Cole has knowledge of all this matter it is expected that the situation will soon be adjusted.

TECHNIQUE 1920
(Continued from page 1)

that no distinction will be given to any one class.

The present plans call for a book of 600 pages, 8000 square inches of half-tones and a large number of cartoons. The binding has not been decided upon as yet depending upon how the circulation of the issue is to be supported.

The Board is attempting to make an entire new book of TECHNIQUE and in doing so it realized that it will need the help and suggestions of the entire student body. For this reason they wish to announce that any suggestions, no matter how small, will be greatly appreciated and will help to make TECHNIQUE 1920 a book of which the whole Institute may be justly proud.

KOMMERS SMOKER
(Continued from page 1)

was folowed by Kenneth Akers, who took the part of Helen Barnes, the heroine of last ear's show and who sung "When I Look Into Your Eyes." He afterwards sang "Drifting" which was

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the big hit in "Let 'Tr Go."

George Knight '20, spoke about the work of the publicity department emphasizing the fact that its work was not in obtaining advertisements but in etting the show before the public. He added that two or three freshman assistants are needed and stated that these men would be promoted next year in the same way in which the stage managers are advanced. Percy Bugbee, '20, told of the work of the business department saying that there was still a great opportunity for both freshmen and Sophomores. At the end of the term, the Sophomores in this department are generally promoted to the positions of business manager and treasurer and the general manager is chosen from the heads of the departments when they become Seniors. The business department takes care of the show programs, the musical score, handles the tickets and other things of this nature.

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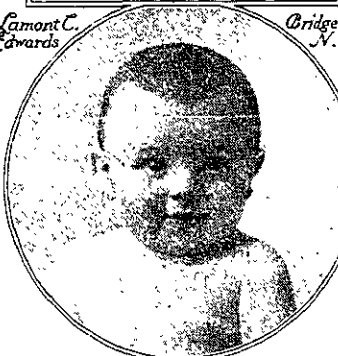
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MEN IN SERVICE

The TECH will publish once a week, the list of Technology men who participated in the World War. This is the final list which we have prepared with the aid of the Alumni Association and the M. I. T. War Service Auxiliary. It will be published by classes and it is earnestly desired that any corrections or omissions be sent to the Military Editor of THE TECH. This list records the place where the Institute men were at the time the armistice was signed. Any later news of the whereabouts of these men will be published in the Personals Column of later issues.

CLASS OF 1890

Aden, Charles H., IV.
Assistant to Depot Q. M., Q. M. R. C.,
Q. M. Corps, A. E. F., France.
Blood, John Balch, VI.
Executive Office, U. S. S. Kwasind.
Brownell, Ernest H., I.
U. S. Naval Aviation Forces Foreign
Service, 4 Place d'Iena, Paris.
DeLancy, Darrah, (Civilian).
Sec'y War Dept., District Board of
Second District, State of Conn.
Flood, Samuel D., II.
Ensign U. S. N., U. S. S. "Yankton."
Hale, George Ellery, (Civilian).
Chairman National Research Council.
Poland, William B., I.
Director in Holland of Amer. Comm.
for Relief in Belgium. Betowed
with Cross of Chevalier of Legion
of Honor by President Poincaré of
France.
Gilmore, George L., II.
Q. M., Production Branch, Asst. in
Textiles, Q. M. Depot, Cambridge,
Mass.
Schiefflen, Schuyler, VI.
Capt. 81st Aero Sq., A. E. F.
Waite, Henry M., I.
Lt.-Col., D. G. T., A. E. F.
Walker, Elton D., I.
Capt., 15th U. S. Engrs., A. E. F.

CLASS OF 1891

Campbell, Jeremiah, II.
Major, Eng., A. E. F., Commanding
Officer, Les Salbes D'Olonne, France.
French, L. G., (Civilian).
In charge of indexing of Mobilization
Committee of American Society of
Mech. Engrs.
Kimball, H. S., X.
Capt., O. O. R. C., Washington.
Knowles, Morris, (Civilian).
Eng. Cantonment for 8th Nat'l Army,
Annapolis Junction, Md.

Leeming, Woodruff, IV.
Major, C. O. Motor Sup. Tr. 401st Q.
M. C., A. E. F.
Roberts, William J., (Civilian).
Eng. Cantonment for 16th Nat'l Army,
American Lake, Wash.
Snyder, F. T., (Civilian).
Is perfecting process of nitrogen fixa-
tion.

Coes, Stephen L., VI.
Capt., Ord. R. C. Insp. of Constr., U.
S. Nitrate Plant No. 2, Sheffield,
Alabama.

Scudder, Marshall S.
Capt., 361st Inf.
Tappan, Ernest S., V.
Secretary, Y. M. C. A., Paris, France.
Henderson, Walter P., IV.
Lt., Red Cross, Reconstruction Work,
Bordeaux, France.

Kales, Wm. R., II.
Capt., 3rd Army Air Service, A. E. F.
At present in Germany.

CLASS OF 1892

Burrage, Severance, VII.
Major, S. R. Com. Now Dr. Public
Health Service, New London, Conn.

Dubois, Baron P., VI.
Capt., Pay Corps, U. S. N.
Feland, Logan, IV.
Lt.-Col., Marine Co., France.

Hall, John W., IV.
1st Lt., 102nd Mach. Gun Bn., Hdqts.
Co., 26th Div., Adv. Sec., Line of
Communication, A. E. F.

Mathews, A. P., VII.
Capt., Q. M. No longer in service hav-
ing resigned Oct. 26, 1918.

Messenger, W. H., II.
Capt., Engrs., U. S. R., 2nd Bn., 23rd
Regt.

Ober, Arthur J.,
Comm. Major in Engr. Division of
O. R. C.

Phillips, H. M., (Civilian).
Insp. Bureau of Steam Navigation
Navy Dept.

Pollard, Albert A., IV.
Corp., 1st Minn. N. O.

Skinner, Theodore H., IV.
Capt., Q. C., U. S. R., Washington,
D. C.

Stritzinger, Frederick G., Jr.,
Major, 23rd Inf.

Warner, Murray.
78th Division.

Williams, Harry N., I.
Capt., 16th Ry. Engrs. Transporta-
tion Serv. Off. of Div. Supt., A. E. F.

CLASS OF 1893

Albee, O. W., III.
Lt.-Col., Ord. Dept., O. R. C., Toronto,
Canada.

Alden, Herbert W.
Lt.-Col., working in France on motors
for tanks. Back in Washington,
D. C.

Beattie, R. H., (Civilian).
Emergency Fleet Corp.

Belcher, C. E.
Q. M., Co. B., "not in service," June
3, 1917 (information).

Clapp, Wilfred Atherton, I.
C. E., Q. M. C., Ft. McDowell, Cal.

Clarke, Thomas Curtis, V.
Lt.-Col., 110th Regt. Engrs.

Copeland, William, VII.
Corp., Pa. N. G.

Jackson, Daniel D., V.
Sgt., Vol. C. A. C.

Williams, Frank P.
Lt.-Col. Hdqts. Co., 26th San. Insp.,
A. E. F.

Whitaker, S. Edgar.
Major, O. O. R. C., Ord. Dept., Wash-
ington, D. C.

Yorks, George M., VI.
Major, Sig. C. U. S. R., Staff Work.

Rice, Henry L., X.
Major, Chief of Ordnance Officer, A. E.
F.

CLASS OF 1894

Davies, Theophilus, II.
Lieut., 3rd Bn., Hampshire Regt., B.
E. F.

Kendall, Albert, II.
Capt., C. A. C., Co. 17, Fort Rever,
Boston.

Prescott, Samuel C., V.
Major, Food Div., Med. San. C., N. A.
Has been asked to undertake special
work upon the conservation and
salvage of goods b the Food Div. of
U. S. A., and has already begun his
work.

Price, Raymond B., (Civilian).
National Council of Defense.

Rogers, John A., IV.
Ensign, U. S. N. R. Charge of Armed
Guard, Key West, Fla.

Stevens, John C., XI.
Capt., Battery B, 108th F. A.

Well, Isaac.
Capt., O. R. C.

Johnson, Charles H., I.
U. S. Naval Station, Guantanamo Bay,
Cuba.

McKibben, F. P., I.
Emergency Fleet Corporation Lecturer.
(Civilian).

CLASS OF 1895

Ames, A.
Major, N. Y. C. A. C., 41st Art. Com-
manding 2d Bn., Fort Monroe, Va.

Aultman, Dwight E., VI.
Brig.-Gen., F. A., U. S. A., A. E. F.

Abbott, Louis, II.
OCapt., Ord. Carriage Section and Pro-
duction Division, Washington, D. C.

Denson, Hugh C.
Capt., U. S. N. Coast and Geodetic
Survey, Washington, D. C.

Owen, Allison, IV.
Colonel, 141st, F. A., A. E. F.
Swope, Gerard, IV.
Brig.-Gen. Asst. to Gen. Geothals.
Waterbury, Charles Dann, IV.
Capt., Engrs. Died, Walter Reed Hos-
pital, Oct. 9, 1918, of pneumonia.

CLASS OF 1896

Bigelow, Charles Willard, II, (Civilian).
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tion. Address care Bearing Bros.,
London.

Boedeker, John, VI.
Lieut., U. S. N. R.

Burkhalter, Dennis W., II.
Capt., E. O. R. C., Co. D, 17th Engrs.
Railway, A. E. F.

Churchill, Percival M., I.
Major, 2nd Bn., 304th Engrs., A. E. F.

Clafin, William B., IV. N
Capt., Intelligence Section, 39th Divi-
sion, A. E. F.

Gay, Charles M., IV.
Capt., Engrs., U. S. R., Gen. Eng.
Depot, Washington.

Kemble, Parker H., XIII.
Insp., Shipping Marine Engrs.

Kotzchmar, Hermann, Jr., II.
1st Lieut., Engrs. U. S. Coast Guard,
Chief Engr.

Meserve, Charles Arthur, V.
Major, 60th Regt., C. A. C., A. E. F.

Parmelee, Charles L., I & XI.
Capt., E. O. R. C., Resignation accept-
ed by President, Dec., 1917.

Cummings, Charles K., IV.
Lt. j. g. U. S. S. Mt. Vernon.

Guptill, Frank, VI.
Capt., 34th Engrs., Fort Benjamin
Harrison, Ind.

Howland, Stanley, IX.
Capt., Adj. Gen. Dept., Washington,
D. C.

Mead, Ernest E.
Lieut.

Morris, Charles,
Pay Inspector, U. S. N. Supply Office,
Navy Yard, N. Y.

Rawson, H. D., IV.
Major, Constr. Div. of Q. M. C., Wash-
ington, D. C.

Sheridan, Henry H. K.
Major, Engr. Div., Ord. Dept., Motor
Equipment Section, Commanding
Officer at Jerse City Engineering
Station.

Smyser, James S., II.
Capt., Ord. R. C.

Ames, Butler, IV.
Major-Gen., M. S. G.

Anderson, W. P.
Capt., E. O. R. C., Co. A, 12th Engrs.,
A. E. F.

Baile, T. W.
Capt., E. O. R. C., Co. D, 101st Engrs.,
A. E. F. Returned to States, Camp
Humphreys, Va.

Bakenhus, R. E., I.
Capt., C. E., U. S. N., Bureau of Yards
and Docks, Washington, D. C.

Bates, D. M.,
Major, Ord., Div. Hdqts., Camp Logan,
Texas.

Clarke, Robert C., IX.
1st Lt., Co. I, 156th Regt., 39th Div.,
A. E. F.

(KHA7N.CJ J. ETAOIN SHRDUE
Clifford, W. H., V.
Major, 155th Depot Brig., Camp Lee.

Hardy, Robert S., VI.
Capt., E. O. R. C. Recruit Officer, 20th
Engrs.

Haseltine, William E., X.
Capt., General Staff, Corps of Engrs.

Howe, James L., (Civilian).
Nat. Research Council.

Mayo, Walter John, II.
Major, 2nd Bat., 103rd Inf., A. E. F.

Norris, Reginald, VI.
1st Lieut., Amer. Mission, Bureau In-
terallic, 30 Avenue Marceau, PParis.

Rockwell, John A., Dr., VII.
Major, U. S. R., Med. Corps, Base
Hospital.

Smyser, Charles J., II.
Capt., Med. R. C.

Stamp, Charles E.
Capt., Crane Section of War Indus.
Board, Washington. Ord. Discharged
Dec. 17, 1918.

Tillinghast, Charles F., II.
Col., C. A., N. G.

Wall, W. G.
Major, Ord. R. C., working in this
country on motors for tanks.

Woodsum, Arthur F.
Mach., Portsmouth Navy Yard.

Young, C. H.
Asst. in naval work.

CLASS OF 1897

Rhodes, W. S., XII.
Capt., Q. M. C.

Robins, William P., IV.
1st Lieut., Army War College, Wash-
ington, D. C.

Sheafe, Harry J., III.
Capt., U. S. R., A. E. F. Engrs. Gas
Service.

Stork, William B., II.
Lt. j. g. Joint Merchant Vessel Board,
Boston Navy Yard.

Strugis, Russell, X.
Capt., San. Cps. Food and Nutrition.
Chatanooga, Tenn.

Wiggin, Thomas H., I.
Major of Engrs., France. Working in
connection with water supply prob-
lems for new U. S. camps.

Wolfe, John C., II.
Capt., E. O. R. C.

Whiteside, George S., Dr., V.
Asst. Surgeon, Med. R. C. of Navy.

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